

Shoreline Biotech Experience Kit ELISA Reagents and Supplies

Used in the 'Influenza Outbreak Investigation' and 'Cancer Biology' kits

Most of these reagents/supplies are provided in the kit. They are available commercially as well.

1. 0.2M Carb/Bicarb pH 9.4 (provided in the kit, but can be purchased from companies like BioLegend and ThermoFisher)
Store in the refrigerator. This is ELISA coating buffer. In our kit, it is called 'Antibody Diluent'. It is the solution that the HRP-ProteinA is diluted in and that facilitates the coating of the HRP-ProtA to the wells of the ELISA plate.
2. 10X PBS (provided in the kit, but can be purchased from numerous vendors)
Teachers dilute 10X PBS to 1X PBS with distilled water.
3. PBS-Tween – ELISA wash buffer – 1X PBS + 0.05% Tween 20 (provided in the kit)
Tween 20 is a mild detergent that can be purchased by chemical companies like Sigma Aldrich
4. Protein A conjugated to Horse Radish Peroxidase (provided in the kit - light sensitive)
HRP-ProtA from Invitrogen cat# 101023
Make 5uL aliquots and store in freezer, protected from light
5. TMB (3,3',5,5'-tetramethylbenzidine) – ELISA substrate (provided in the kit - light sensitive)
Store in the refrigerator.
Novex by Life Technologies cat# 002023
6. ELISA plates (provided in the kit)
These are 96 well plates that are pre-treated with a substance that promotes protein binding.